

AS

As a below named inventor, I declare that:

My residence, Post Office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **SUBSTANTIALLY DRY, SILICA-CONTAINING SOOT, FUSED SILICA AND OPTICAL FIBER SOOT PREFORMS, APPARATUS, METHODS AND BURNERS FOR MANUFACTURING SAME.**

The specification of which (check only one item below):

- ☐ is attached hereto
- ☒ was filed as United States Application Serial No. 09/833,540 on April 12, 2001 and was amended on (if applicable)
- ☐ was filed as PCT international application number , on , and was amended under PCT Article 19 on (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, on the same subject matter, having a filing date before that of the application on which priority is claimed:

- |                          |                 |                         |                     |
|--------------------------|-----------------|-------------------------|---------------------|
| <input type="checkbox"/> | <b>Country:</b> | <b>Application No.:</b> | <b>Filing Date:</b> |
| <input type="checkbox"/> | <b>NONE</b>     |                         |                     |

I hereby claim the benefit under Title 35 United States Code § 119(e) and § 120 of any United States application(s) or 365(c) of any PCT international application designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 United States Code § 112, I acknowledge the duty to disclose material information as defined in Title 37 Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

- |                                     |                                    |                        |                        |
|-------------------------------------|------------------------------------|------------------------|------------------------|
| <input checked="" type="checkbox"/> | <b>Provisional No.:</b> 60/200,405 | <b>Filed:</b> 4/28/00  | <b>Status:</b> Pending |
| <input checked="" type="checkbox"/> | <b>Provisional No.:</b> 60/258,132 | <b>Filed:</b> 12/22/00 | <b>Status:</b> Pending |
| <input type="checkbox"/>            | <b>Application No.:</b>            | <b>Filed:</b>          | <b>Status:</b>         |
|                                     | <b>PCT Application No:</b>         | <b>Filed:</b>          | <b>Status:</b>         |

DECLARATION IN ORIGINAL APPLICATION



U.S. Attorney Docket No.: SP00-130

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Full Name of Inventor:** John T. Brown

**Resident Address:** 455 W. Third Street, Corning, NY 14830  
**Post Office Address:** same

**Citizenship:** USA

**DATE:** 17 May 2001

John T. Brown  
John T. Brown

**Full Name of Inventor:** Gerald E. Burke

**Resident Address:** 8 Meadow Lane, Painted Post, NY 14870  
**Post Office Address:** same

**Citizenship:** USA

**DATE:** 5/17/01

Gerald E. Burke  
Gerald E. Burke

**Full Name of Inventor:** Lisa C. Chacon

**Resident Address:** 2493 B Spencer Hill Road, Corning, NY 14830  
**Post Office Address:** same

**Citizenship:** USA

**DATE:** 5/22/01

Lisa C. Chacon  
Lisa C. Chacon

**Full Name of Inventor:** Steven B. Dawes

**Resident Address:** 4 E. 4th Street, Corning, NY 14830  
**Post Office Address:** same

**Citizenship:** USA

**DATE:** May 17, 2001

Steven B. Dawes  
Steven B. Dawes

DECLARATION IN ORIGINAL APPLICATION

U.S. Attorney Docket No.: SP00-130

**Full Name of Inventor:** Adam J. Ellison

**Resident Address:** 146 E. 3rd Street, Corning, NY 14830  
**Post Office Address:** same

**Citizenship:** USA

**DATE:** 17 May 2001

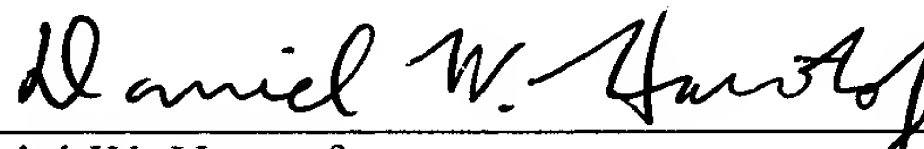
  
Adam J. Ellison

**Full Name of Inventor:** Daniel W. Hawtof

**Resident Address:** 2910 Woodsedge Drive, Apt. 128, Painted Post, NY 14870  
**Post Office Address:** same

**Citizenship:** USA

**DATE:** 5/17/01

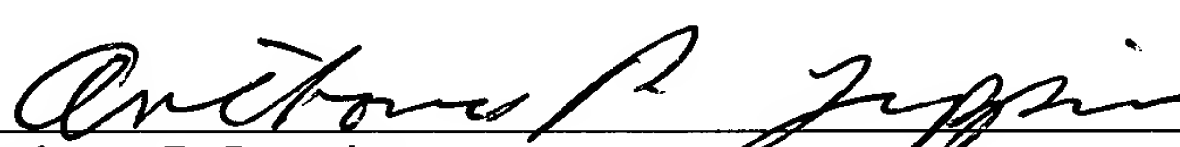
  
Daniel W. Hawtof

**Full Name of Inventor:** Anthony P. Luppino

**Resident Address:** 830 S. Main Street, Horseheads, NY 14845  
**Post Office Address:** same

**Citizenship:** USA

**DATE:** May 22, 2001

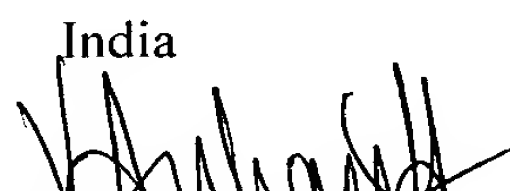
  
Anthony P. Luppino

**Full Name of Inventor:** V. Srikant

**Resident Address:** 4C2 Candlewyck Apartments, Ithaca, NY 14850  
**Post Office Address:** same

**Citizenship:** India

**DATE:** May 25, 2001

  
V. Srikant

DECLARATION IN ORIGINAL APPLICATION

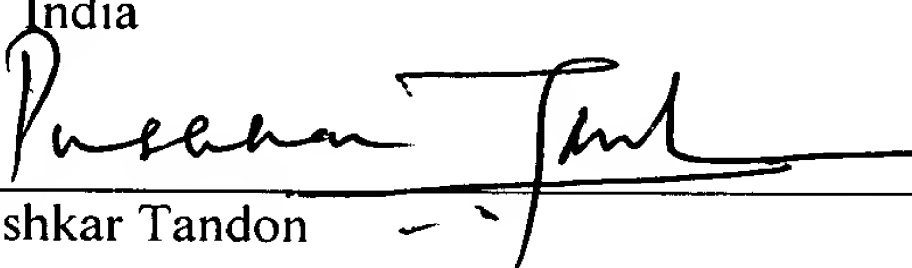
U.S. Attorney Docket No.: SP00-130

**Full Name of Inventor:** Pushkar Tandon

**Resident Address:** 4 Briarcliff Drive, Corning, NY 14830  
**Post Office Address:** same

**Citizenship:** India

**DATE:** 5/17/01

  
Pushkar Tandon

**Full Name of Inventor:** Christine L. Tennent

**Resident Address:** 4748 Clawson Drive, Campbell, NY 14821  
**Post Office Address:** same

**Citizenship:** USA

**DATE:** May 17, 2001

  
Christine L. Tennent

**Full Name of Inventor:** James P. Terrell, Jr.

**Resident Address:** 415 Bostwick Road, Ithaca, NY 14850  
**Post Office Address:** same

**Citizenship:** USA

**DATE:** 5/18/01

  
James P. Terrell, Jr.

**Full Name of Inventor:** Joseph M. Whalen

**Resident Address:** 2493 Spencer Hill Road, Corning, NY 14830  
**Post Office Address:** same

**Citizenship:** Canada

**DATE:** 5/18/01

  
Joseph M. Whalen

2874

#5

(U.S.)

Attorney Docket No.: SP00-130



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Brown, et al

Serial No.: 09/833,540

Filed: 4/11/01

For: SUBSTANTIALLY DRY, SILICA-  
CONTAINING SOOT, FUSED SILICA  
AND OPTICAL FIBER SOOT  
PREFORMS, APPARATUS, METHODS  
AND BURNERS FOR  
MANUFACTURING SAME

COMBINED  
CERTIFICATE UNDER  
37 C.F.R. § 3.73(b)  
and  
POWER OF ATTORNEY

Assistant Commissioner for Patents  
Washington, DC 20231

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

**CORNING INCORPORATED**, a New York corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventor(s) of the patent application identified above. A true copy of the unrecorded Assignment is attached hereto.

The undersigned has reviewed the above referenced assignment of the patent application identified above and, to the best of the undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

RECEIVED  
AUG 23 2001  
10:00 AM  
MAIL ROOM



RECEIVED  
AUG 23 2001  
TC 2000 MAIL RD9f2

(U.S.)

Attorney Docket No.: SP00-130

### POWER OF ATTORNEY BY ASSIGNEE

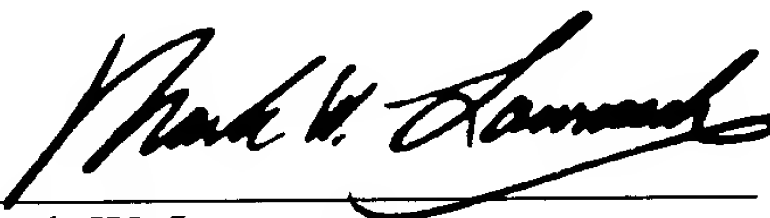
CORNING INCORPORATED, the assignee of the full and exclusive right, title and interest in and to the accompanying application for United States Letters Patent entitled **SUBSTANTIALLY DRY, SILICA-CONTAINING SOOT, FUSED SILICA AND OPTICAL FIBER SOOT PREFORMS, APPARATUS, METHODS AND BURNERS FOR MANUFACTURING SAME** and executed by John T. Brown, Gerald E. Burke, Lisa C. Chacon, Steven B. Dawes, Adam J. Ellison, Daniel W. Hawtof, Anthony P. Luppino, V. Srikant, Pushkar Tandon, Christine L. Tennent, James P. Terrell, Jr., and Joseph M. Whalen on 5/17/01, 5/17/01, 5/22/01, 5/17/01, 5/17/01, 5/17/01, 5/22/01, 5/25/01, 5/17/01, 5/17/01, 5/18/01 and 5/18/01, respectively, appoints the practitioners associated with the Customer Number provided below (i.e., the practitioners associated with the Patent Department, Corning Incorporated) to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Please direct all correspondence to Randall S. Wayland at the address associated with that Customer Number.

Customer Number: 22928

CORNING INCORPORATED

Date: 8/13/01

By

  
Mark W. Lauroesch  
Assistant Secretary

## ASSIGNMENT

FOR VALUE RECEIVED, I, as a below named inventor, hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to a **SUBSTANTIALLY DRY, SILICA-CONTAINING SOOT, FUSED SILICA AND OPTICAL FIBER SOOT PREFORMS, APPARATUS, METHODS AND BURNERS FOR MANUFACTURING SAME**, such inventions being generally described in an application for Letters Patent of the United States executed on

DATE 5/17/01

DATE 5/17/01

DATE 5/22/01

DATE 5/17/01

DATE 5/17/01

DATE 5/17/01

DATE 5/22/01

DATE 5/25/01

DATE 5/17/01

DATE 5/17/01

DATE 5/18/01

DATE 5/18/01

and in any future patent applications claiming the benefit of the filing date of that application, and all the rights and privileges under any and all Letters Patents that may be granted therefore.

I request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

I agree that, when requested, I will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

I authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at Corning, NY, this

17 May 2001  
Date

5/17/01  
Date

5/22/01  
Date

May 17, 2001  
Date

17 May 2001  
Date

May 17, 2001  
Date

May 22, 2001  
Date

May 25, 2001  
Date

5/17/01  
Date

May 17, 2001  
Date

5/18/01  
Date

5/18/01  
Date

John T. Brown  
John T. Brown

Gerald E. Burke  
Gerald E. Burke

Lisa C. Chacon  
Lisa C. Chacon

Steven B. Dawes  
Steven B. Dawes

Adam J. Ellison  
Adam J. Ellison

Daniel W. Hawtof  
Daniel W. Hawtof

Anthony P. Luppino  
Anthony P. Luppino

V. Srikant  
V. Srikant

Pushkar Tandon  
Pushkar Tandon

Christine L. Tennent  
Christine L. Tennent

James P. Terrell Jr.  
James P. Terrell Jr.

Joseph M. Whalen  
Joseph M. Whalen

State of New York)

: ss.

County of Steuben)

On the 17<sup>th</sup> day of May 2001, before me personally came **John T. Brown** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.


Michelle M. Proctor  
Notary Public

Michelle M. Proctor  
Notary Public, State of New York  
Steuben County No. 4911462  
Commission Expires Nov. 9, 2001




State of New York)  
: ss.  
County of Steuben)

On the 17<sup>th</sup> day of May 2001, before me personally came **Gerald E. Burke** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

  
Notary Public  
Michelle M. Proctor  
Notary Public, State of New York  
Steuben County No. 4911462  
Commission Expires Nov. 9, 20 01

State of New York)  
: ss.  
County of Steuben)

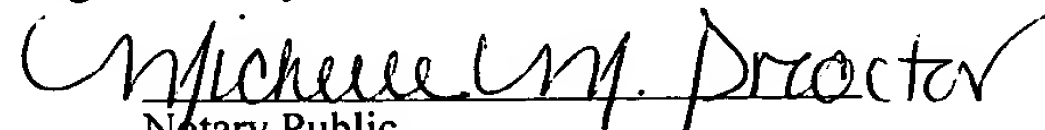
On the 22<sup>nd</sup> day of May 2001, before me personally came **Lisa C. Chacon** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

  
Notary Public

State of New York)  
: ss.  
County of Steuben)

Michelle M. Proctor  
Notary Public, State of New York  
Steuben County No. 4911462  
Commission Expires Nov. 9, 20 01

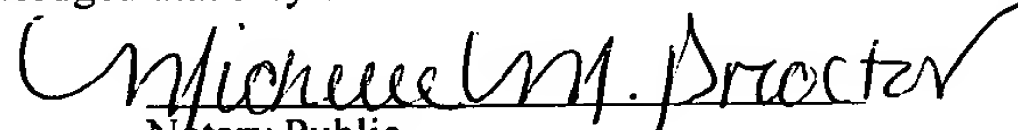
On the 17<sup>th</sup> day of May 2001, before me personally came **Steven B. Dawes** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

  
Notary Public  
Michelle M. Proctor

State of New York)  
: ss.  
County of Steuben)

Notary Public, State of New York  
Steuben County No. 4911462  
Commission Expires Nov. 9, 20 01

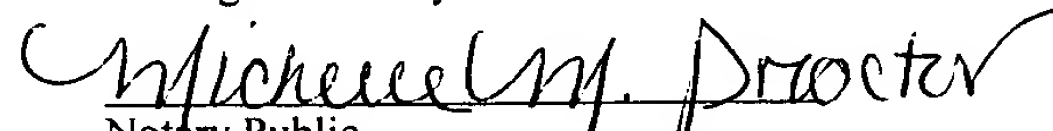
On the 17<sup>th</sup> day of May 2001, before me personally came **Adam J. Ellison** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

  
Notary Public

State of New York)  
: ss.  
County of Steuben)

Michelle M. Proctor  
Notary Public, State of New York  
Steuben County No. 4911462  
Commission Expires Nov. 9, 20 01


On the 17<sup>th</sup> day of May 2001, before me personally came **Daniel W. Hawtof** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

  
Notary Public

State of New York)  
: ss.  
County of Steuben)

Michelle M. Proctor  
Notary Public, State of New York  
Steuben County No. 4911462  
Commission Expires Nov. 9, 20 01

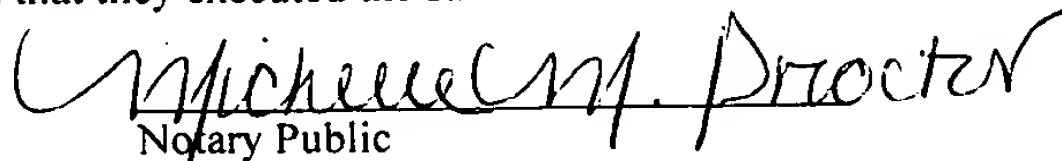
On the 22<sup>nd</sup> day of May 2001, before me personally came **Anthony P. Luppino** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

  
Notary Public

Michelle M. Proctor  
Notary Public, State of New York  
Steuben County No. 4911462  
Commission Expires Nov. 9, 20 01

State of New York)  
: ss.  
County of Steuben)

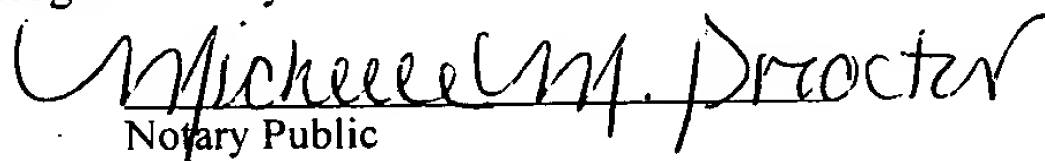
On the 25<sup>th</sup> day of May 2001, before me personally came **V. Srikant** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

  
Notary Public

Michelle M. Proctor  
Notary Public, State of New York  
Steuben County No. 4911462  
Commission Expires Nov. 9, 20 01

State of New York)  
: ss.  
County of Steuben)

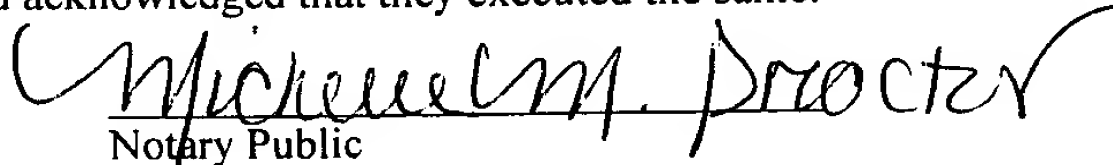
On the 17<sup>th</sup> day of May 2001, before me personally came **Pushkar Tandon** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

  
Notary Public

Michelle M. Proctor  
Notary Public, State of New York  
Steuben County No. 4911462  
Commission Expires Nov. 9, 20 01

State of New York)  
: ss.  
County of Steuben)

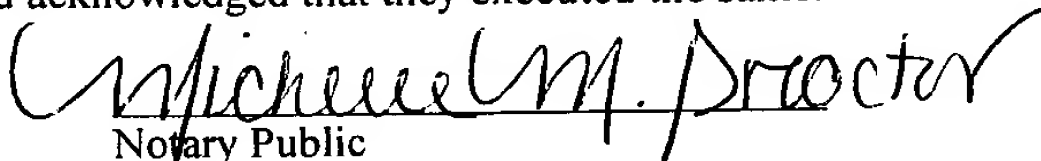
On the 17<sup>th</sup> day of May 2001, before me personally came **Christine L. Tennent** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

  
Notary Public

Michelle M. Proctor  
Notary Public, State of New York  
Steuben County No. 4911462  
Commission Expires Nov. 9, 20 01

State of New York)  
: ss.  
County of Steuben)

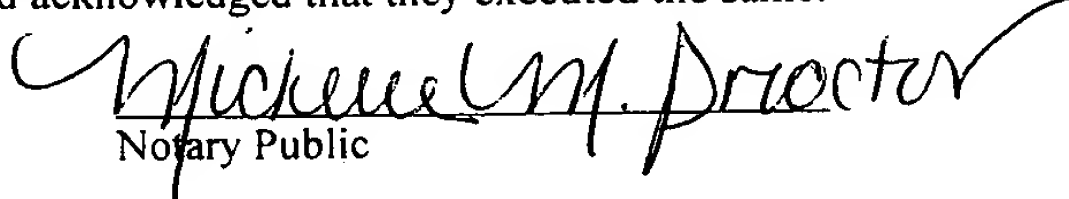
On the 18<sup>th</sup> day of May 2001, before me personally came **James P. Terrell, Jr.** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

  
Notary Public

Michelle M. Proctor  
Notary Public, State of New York  
Steuben County No. 4911462  
Commission Expires Nov. 9, 20 01

State of New York)  
: ss.  
County of Steuben)

On the 18<sup>th</sup> day of May 2001, before me personally came **Joseph M. Whalen** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

  
Notary Public

Michelle M. Proctor  
Notary Public, State of New York  
Steuben County No. 4911462  
Commission Expires Nov. 9, 20 01